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The  
United  
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Form PTO-1584 (Rev. 2/97)

PTO UTILITY GRANT  
Paper Number 8

The Commissioner of Patents  
and Trademarks

Has received an application for a patent for a  
new and useful invention. The title and de-  
scription of the invention are enclosed. The  
requirements of law have been complied with,  
and it has been determined that a patent on  
the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this  
patent the right to exclude others from mak-  
ing, using, offering for sale, or selling the in-  
vention throughout the United States of  
America or importing the invention into the  
United States of America for the term set forth  
below, subject to the payment of maintenance  
fees as provided by law.

If this application was filed prior to June 8,  
1995, the term of this patent is the longer of  
seventeen years from the date of grant of this  
patent or twenty years from the earliest effec-  
tive U.S. filing date of the application, sub-  
ject to any statutory extension.

If this application was filed on or after June  
8, 1995, the term of this patent is twenty years  
from the U.S. filing date, subject to an statu-  
tory extension. If the application contains a  
specific reference to an earlier filed applica-  
tion or applications under 35 U.S.C. 120, 121  
or 365(c), the term of the patent is twenty years  
from the date on which the earliest applica-  
tion was filed, subject to any statutory exten-  
sion.

*Bruce Lehman*  
Commissioner of Patents and Trademarks

*Marjorie V. Turner*  
Attest